




FORM PTO-1449	Atty. Docket No.: C382.12-0139	Serial No.: 10/654,098
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Applicant: James K. Klang et al.	
	Filing Date September 3, 2003	Group Art: 2838

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
	AA	5,578,915	11/26/96	Crouch, Jr. et al.	320 48	
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	AC					
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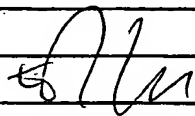
FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	AL					
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	AN					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	
	AP	
	AQ	


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









DATE CONSIDERED:

9/05




EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449	Atty. Docket No.: C382.12-0139	Serial No.: 107654,098
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT 	Applicant:	
	James K. Klang et al.	
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	September 3, 2003	





U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
	AA	2,514,745	7/11/50	Dalzell	171-95	
	AB	3,593,099	7/13/71	Scholl	320-13	
	AC	3,607,673	9/21/71	Seyl	204-1	
	AD	3,676,770	7/11/72	Sharaf et al.	324-29.5	
	AE	3,729,989	5/1/73	Little	23-133	
	AF	3,753,094	8/14/73	Furuishi et al.	324-29.5	
	AG	3,808,522	4/30/74	Sharaf	324-29.5	
	AH	3,811,089	5/14/74	Strezelewicz	324-179	
	AI	3,873,911	3/25/75	Champlin	324-29.5	
	AJ	3,886,443	5/27/75	Miyakawa et al.	324-29.5	
	AK	3,889,248	6/10/75	Ritter	340-249	
	AL	3,906,329	9/16/75	Bader	320-44	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	AM	59-17892	1/30/84	Japan		Abstract Only
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	AO	59-17894	1/30/84	Japan		Abstract Only

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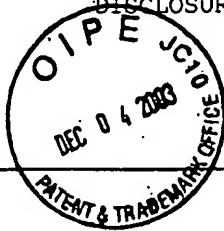
	AP	"Electrochemical Impedance Spectroscopy in Battery Development and Testing", Batteries International, April 1997, pgs. 59 and 62-63.
	AQ	"Battery Impedance", by E. Willihnganz et al., Electrical Engineering, September 1959, pgs. 922-925.
	AR	"Determining The End of Battery Life", by S. DeBardelaben, IEEE, 1986, pgs. 365-368.
	AS	"A Look at the Impedance of a Cell", by S. Debardelaben, IEEE, 1988, pgs. 394-397.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AT	3,909,708	9/30/75	Champlin	324	29.5	
AU	3,936,744	2/3/76	Perlmutter	324	158	
AV	3,946,299	3/23/76	Christianson et al.	320	43	
AW	3,947,757	3/30/76	Grube et al.	324	28	
AX	3,969,667	7/13/76	McWilliams	324	29.5	
AY	3,979,664	9/7/76	Harris	324	17	
AZ	3,984,762	10/5/76	Dowgiallo, Jr.	324	29.5	
BA	3,984,768	10/5/76	Staples	324	62	
BB	4,008,619	2/22/77	Alcaide et al.	73	398	
BC	4,053,824	10/11/77	Dupuis et al.	324	29.5	
BD	4,070,624	1/24/78	Taylor	327	158	
BE	4,086,531	4/25/78	Bernier	324	158	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
BF	60225078	11/9/85	Japan			Abstract Only
BG	04372536	12/25/92	Japan			Abstract Only
BH	04131779	5/6/92	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

BI	"The Impedance of Electrical Storage Cells", by N.A. Hampson et al., <u>Journal of Applied Electrochemistry</u> , 1980, pgs. 3-11.
BJ	"A Package for Impedance/Admittance Data Analysis", by B. Boukamp, <u>Solid State Ionics</u> , 1986, pgs. 136-140.
BK	"Precision of Impedance Spectroscopy Estimates of Bulk, Reaction Rate, and Diffusion Parameters", by J. Macdonald et al., <u>J. Electroanal. Chem.</u> , 1991, pgs. 1-11.

EXAMINER:

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
BL	4,112,351	9/5/78	Back et al.	324	16	
BM	4,114,083	9/12/78	Benham et al.	320	39	
BN	4,126,874	11/21/78	Suzuki et al.	354	60	
BO	4,178,546	12/11/79	Hulls et al.	324	158	
BP	4,193,025	3/11/80	Frailing et al.	324	427	
BQ	4,207,611	6/10/80	Gordon	364	580	
BR	4,315,204	2/9/82	Sievers et al.	322	28	
BS	4,316,185	2/16/82	Watrous et al.	340	636	
BT	4,322,685	3/30/82	Frailing et al.	324	429	
BU	4,363,407	12/14/82	Barkler et al.	209	3.3	
BV	4,369,407	1/18/83	Korbell	324	416	
BW	4,412,169	10/25/83	Dell'Orto	320	64	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
BX	03282276	12/12/91	Japan			Abstract Only
BY	03274479	12/5/91	Japan			Abstract Only
BZ	5216550	8/27/93	Japan			Abstract Only
CA	59017894	1/30/84	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CB	"Internal Resistance: Harbinger of Capacity Loss in Starved Electrolyte Sealed Lead Acid Batteries, by Vaccaro, F.J. et al., AT&T Bell Laboratories, 1987 IEEE, Ch. 2477, pp. 128,131.
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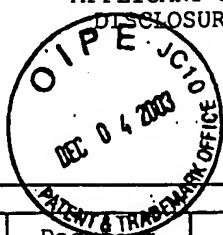
Applicant:

James K. Klang et al.

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Group Art:



U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
	CC	4,390,828	6/28/83	Converse et al.	320 32	
	CD	4,392,101	7/5/83	Saar et al.	320 20	
	CE	4,396,880	8/2/83	Windebank	320 21	
	CF	4,408,157	10/4/83	Beaubien	324 62	
	CG	4,423,378	12/27/83	Marino et al.	324 427	
	CH	4,423,379	12/27/83	Jacobs et al.	324 429	
	CI	4,424,491	1/3/84	Bobbett et al.	324 433	
	CJ	4,459,548	7/10/84	Lentz et al.	324 158	
	CK	4,514,694	4/30/85	Finger	324 429	
	CL	4,520,353	5/28/85	McAuliffe	340 636	
	CM	4,667,279	5/19/87	Maier	363 46	
	CN	4,678,998	7/7/87	Muramatsu	324 427	
	CO	4,679,000	7/7/87	Clark	324 428	
	CP	4,697,134	9/29/87	Burkum et al.	320 48	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	CQ	EP 0 772 056 A1	5/7/97	EPO		X
	CR	EP 0 637 754 A1	2/8/95	EPO		X
	CS	2 088 159 A	6/3/82	Great Britain		X

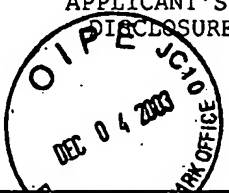
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CT	IEEE Recommended Practice For Maintenance, Testings, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations, The Institute of Electrical and Electronics Engineers, Inc., ANSI/IEEE Std. 450-1987, 3/9/1987, pp. 7-15.
	CU	"Field and Laboratory Studies to Assess the State of Health of Valve-Regulated Lead Acid Batteries: Part I Conductance/Capacity Correlation Studies", by D. Feder et al., IEEE, August 1992, pgs. 218-233.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>CV</i>	4,707,795	11/17/87	Alber et al.	364	550	
<i>CW</i>	4,709,202	11/24/87	Koenck et al.	320	43	
<i>CX</i>	4,710,861	12/1/87	Kanner	363	46	
<i>CY</i>	4,719,428	1/12/88	Liebermann	324	436	
<i>CZ</i>	4,743,855	5/10/88	Randin et al.	324	430	
<i>DA</i>	4,816,768	3/28/89	Champlin	324	428	
<i>DB</i>	4,820,966	4/11/89	Fridman	320	32	
<i>DC</i>	4,825,170	4/25/89	Champlin	324	436	
<i>DD</i>	4,849,700	7/18/89	Morioka et al.	324	423	
<i>DE</i>	4,881,038	11/14/89	Champlin	324	426	
<i>DF</i>	4,912,416	3/27/90	Champlin	324	430	
<i>DG</i>	4,929,931	5/29/90	McCuen	340	636	
<i>DH</i>	4,931,738	6/5/90	MacIntyre et al.	324	435	
<i>DI</i>	4,947,124	8/7/90	Hauser	324	430	
<i>DJ</i>	4,956,597	9/11/90	Heavey et al.	320	14	
<i>DK</i>	4,968,941	11/6/90	Rogers	324	428	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>DL</i>	WO 93/22666	11/11/93	WIPO	324	430	X
<i>DM</i>	WO 98/58270	12/23/98	WIPO	324	430	X


OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>DN</i>	"Battery Impedance", by E. Willihnganz et al., <u>Electrical Engineering</u> , September 1959, pgs. 922-925.
<i>DO</i>	"JIS Japanese Industrial Standard-Lead Acid Batteries for Automobiles", <u>Japanese Standards Association UDC</u> , 621.355.2:629.113.006, Nov. 1995.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>DP</i>	5,004,979	4/2/91	Marino et al.	324	160	
<i>DQ</i>	5,032,825	7/16/91	Xuznicki	340	636	
<i>DR</i>	5,047,722	9/10/91	Wurst et al.	324	430	
<i>DS</i>	5,087,881	2/11/92	Peacock	324	378	
<i>DT</i>	5,126,675	6/30/92	Yang	324	435	
<i>DU</i>	5,140,269	8/18/92	Champlin	324	433	
<i>DV</i>	5,144,248	9/1/92	Alexandres et al.	324	428	
<i>DW</i>	5,170,124	12/8/92	Blair et al.	324	434	
<i>DX</i>	5,204,611	4/20/93	Nor et al.	320	21	
<i>DY</i>	5,214,370	5/25/93	Harm et al.	320	35	
<i>DZ</i>	5,214,385	5/25/93	Gabriel et al.	324	434	
<i>EA</i>	5,241,275	8/31/93	Fang	324	430	
<i>EB</i>	5,254,952	10/19/93	Salley et al.	324	429	
<i>EC</i>	5,281,919	1/25/94	Palanisamy	324	427	
<i>ED</i>	5,281,920	1/25/94	Wurst	324	430	
<i>EE</i>	5,295,078	3/15/94	Stich et al.	364	493	
<i>EF</i>	5,298,797	3/29/94	Redl	307	246	
<i>EG</i>	5,300,874	4/5/94	Shimamoto et al.	320	15	
<i>EH</i>	5,302,902	4/12/94	Groehl	324	434	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
EK	5,331,268	7/19/94	Patino et al.	320	20	
EL	5,336,993	8/9/94	Thomas et al.	324	158.1	
EM	5,352,968	10/4/94	Reni et al.	320	35	
EN	5,343,380	8/30/94	Champlin	363	46	
EO	5,365,160	11/15/94	Leppo et al.	320	22	
EP	5,365,453	11/15/94	Startup et al.	364	481	
EQ	5,381,096	1/10/95	Hirzel	324	427	
ER	5,426,371	6/20/95	Salley et al.	324	429	
ES	5,432,426	7/11/95	Yoshida	320	20	
ET	5,434,495	7/18/95	Toko	320	44	
EU	5,442,274	8/15/95	Tamai	320	23	
EV	5,457,377	10/10/95	Jonsson	320	5	
EW	5,449,996	9/12/95	Matsumoto et al.	320	20	
EX	5,449,997	9/12/95	Gilmore et al.	320	39	
EY	5,485,090	1/16/96	Stephens	324	433	
EZ	5,519,383	5/21/96	De La Rosa	340	636	
FA	5,528,148	6/18/96	Rogers	324	426	
FB	5,550,485	8/27/96	Falk	324	772	
FC	5,561,380	10/1/96	Sway-Tin et al.	324	509	

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Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
FF	5,562,501	10/8/96	Kinoshita et al.	439	852	
FG	5,572,136	11/5/96	Champlin	324	426	
FH	5,574,355	11/12/96	McShane et al.	320	39	
FI	5,585,728	12/17/96	Champlin	324	427	
FJ	5,592,093	1/7/97	Klingbiel	324	426	
FK	5,596,260	1/21/97	Moravec et al.	320	30	
FL	5,598,098	1/28/97	Champlin	324	430	
FM	5,602,462	2/11/97	Stich et al.	323	258	
FN	5,606,242	2/25/97	Hull et al.	320	48	
FO	5,621,298	4/15/97	Harvey	320	5	
FP	5,642,031	6/24/97	Brotto	320	21	
FQ	5,650,937	7/22/97	Bounaga	364	483	
FR	5,652,501	7/29/97	McClure et al.	320	17	
FS	5,675,234	10/7/97	Greene	320	15	
FT	5,677,077	10/14/97	Faulk	429	90	
FU	5,699,050	12/16/97	Kanazawa	340	636	
FV	5,701,089	12/23/97	Perkins	327	772	
FW	5,717,336	2/10/98	Basell et al.	324	430	
FX	5,757,192	5/26/98	McShane et al.	324	427	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
FY						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

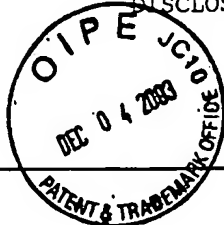
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GA	5,773,978	6/30/98	Becker	324	430	
GB	5,789,899	8/4/98	van Phuoc et al.	320	30	
GC	5,793,359	8/11/98	Ushikubo	345	169	
GD	5,821,756	10/13/98	McShane et al.	324	430	
GE	5,831,435	11/3/98	Troy	324	426	
GF	5,872,443	2/16/99	Williamson	320	21	
GG	5,914,605	6/22/99	Bertness	324	430	
GH	5,945,829	8/31/99	Bertness	324	430	
GI	3,356,936	12/5/67	Smith	324	29.5	
GJ	5,488,300	1/30/96	Jamieson	324	432	
GK	6,002,238	12/14/99	Champlin	320	134	
GL	6,037,777	3/14/00	Champlin	324	430	
GM	6,051,976	4/18/00	Bertness	324	426	
GN	6,081,098	6/27/00	Bertness et al.	320	134	
GO	6,091,245	7/18/00	Bertness	324	426	
GP	6,104,167	8/15/00	Bertness et al.	320	132	
GQ	6,137,269	10/24/00	Champlin	320	150	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
GR	DE 29 26 716 B1	1/15/81	Germany			X
GS	0 022 450 A1	1/21/81	EPO			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

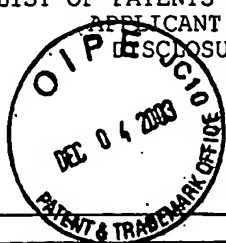
GT	"Performance of Dry Cells", by C. Hambuechen, Preprint of <u>Am. Electrochem. Soc.</u> , April 18-20, 1912, paper No. 19, pgs. 1-5.
GU	"A Bridge for Measuring Storage Battery Resistance", by E. Willihncanz, <u>The Electrochemical Society</u> , preprint 79-20, April 1941, pgs. 253-258.

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FORM PTO-1449

Atty. Docket No.:
C382.12-0139Serial No.:
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Applicant:

James K. Klang et al.

Filing Date

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
GV	3,562,634	2/9/71	Latner	31	04	
GW	4,379,990	4/12/83	Sievers et al.	322	99	
GX	5,144,218	9/1/92	Bosscha	320	44	
GY	5,315,287	5/24/94	Sol	346	455	
GZ	5,469,043	11/21/95	Cherng et al.	320	31	
HA	5,546,317	8/13/96	Andrieu	364	481	
HB	5,583,416	12/10/96	Klang	320	22	
HC	5,589,757	12/31/96	Klang	320	22	
HD	5,656,920	8/12/97	Cherng et al.	320	31	
HE	5,710,503	1/20/98	Sideris et al.	320	6	
HF	5,760,587	6/2/98	Harvey	324	434	
HG	5,808,469	9/15/98	Kopera	324	43.4	
HH	6,008,652	12/28/99	Theofanopoulos et al.	324	434	
HI	6,009,369	12/28/99	Boisvert et al.	701	99	
HJ	6,031,354	2/29/00	Wiley et al.	320	116	
HK	6,037,751	3/14/00	Klang	320	160	
HL	6,072,299	6/6/00	Kurie et al.	320	112	
HM	6,094,033	7/25/00	Ding et al.	320	132	
HN	6,163,156	12/19/00	Bertness	324	426	
HO	6,172,483	1/9/01	Champlin	320	134	
HP	6,172,505	1/9/01	Bertness	324	430	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
HQ	2 749 397	12/5/97	France			X
HR	59215674	12/5/84	Japan			Abstract Only

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
HT	3,989,544	11/2/76	Santo	429	65	
HU	4,745,349	5/17/88	Palanisamy et al.	320	22	
HV	4,876,495	10/24/89	Palanisamy et al.	320	18	
HW	4,937,528	6/26/90	Palanisamy	324	430	
HX	4,968,942	11/6/90	Palanisamy	324	430	
HY	5,179,335	1/12/93	Nor	320	21	
HZ	5,266,880	11/30/93	Newland	320	14	
IA	5,451,881	9/19/95	Finger	324	433	
IB	5,705,929	1/6/98	Caravello et al.	324	430	
IC	5,717,937	2/10/98	Fritz	395	750.01	
ID	5,862,515	1/19/99	Kobayashi et al.	702	63	
IE	5,895,440	4/20/99	Proctor et al.	702	63	
IF	5,929,609	7/27/99	Joy et al.	322	25	
IG	6,072,300	6/6/00	Tsuji	320	116	
IH	4,659,977	4/21/87	Kissel et al.	320	84	
II	4,913,116	4/3/90	Katogi et al.	123	425	
IJ	5,160,881	11/3/92	Schramm et al.	322	7	
IK	5,338,515	8/16/94	Dalla Betta et al.	422	95	
IL	5,537,967	7/23/96	Tashiro et al.	123	792.1	
IM	5,548,273	8/20/96	Nicol et al.	340	439	
IN	5,747,909	5/5/98	Syverson et al.	310	156	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
IO	62-180284	8/7/87	Japan			Abstract
IP	7-128414	5/19/95	Japan			Abstract

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

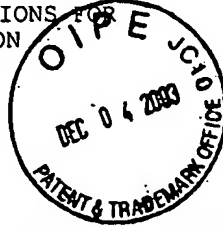
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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
IR	6,114,834	9/5/00	Parise	320	109	
IS	6,150,793	11/21/00	Lesesky et al.	320	104	
IT	3,876,931	4/8/75	Godshalk	324	29.5	
IU	5,347,163	9/13/94	Yoshimura	307	66	
IV	5,939,861	8/17/99	Joko et al.			
IW	5,339,018	8/16/94	Brokaw	320	35	
IX	5,412,323	5/2/95	Kato et al.	324	429	
IY	5,426,416	6/20/95	Jefferies et al.	340	664	
IZ	5,825,174	10/20/98	Parker	324	106	
JA	5,939,855	8/17/99	Proctor et al.	320	104	
JB	5,254,952	10/19/93	Salley et al.	324	429	
JC	4,217,645	8/12/80	Barry et al.	364	483	
JD	4,633,418	12/30/86	Bishop	364	554	
JE	5,321,626	6/14/94	Palladino	364	483	
JF	5,969,625	10/19/99	Russo	340	636	
JG	6,222,369	4/24/01	Champlin	324	430	
JH	6,225,808	5/1/01	Varghese et al.	324	426	
JI	6,249,124	6/19/01	Bertness	324	426	
JJ	6,259,254	7/10/01	Klang	324	427	
JK	6,262,563	7/17/01	Champlin	320	134	
JL	6,294,896	9/25/01	Champlin	320	134	
JM	6,294,897	9/25/01	Champlin	320	153	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
JN	4-8636	1/13/92	Japan			X (Abstract)
JO	63027776	2/5/88	Japan			Abstract Only

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R/M

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
JP	4,379,989	4/12/83	Kurz et al.	320	26	
JQ	4,680,528	7/14/87	Mikami et al.	320	32	
JR	5,633,985	5/27/97	Severson et al.	325	2.76	
JS	5,739,667	4/14/98	Matsuda et al.	320	5	
JT	4,024,953	5/1977	Nailor, III	206	344	
JU	6,250,973	6/2001	Lowery et al.	439	763	
JV	6,254,438	7/2001	Gaunt	439	755	
JW	6,304,087	10/16/01	Bertness	324	426	
JX	6,310,481	10/30/01	Bertess	324	430	
JY	6,313,607	11/6/01	Champlin	320	132	
JZ	6,313,608	11/6/01	Varghese et al.	32	132	
KA	6,316,914	11/13/01	Bertness	320	134	
KB	5,435,185	7/25/95	Eagan	73	587	
KC	5,445,026	8/29/95	Eagan	73	591	
KD	4,667,143	5/19/87	Cooper et al.	320	22	
KE	4,847,547	7/11/89	Eng, Jr. et al.	320	35	
KF	5,574,355	11/12/96	McShane et al.	320	39	
KG	4,663,580	5/5/87	Wortman	320	35	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
KH	WO 99/23738	5/14/99	WIPO			X
KI	WO 94/05069	3/3/94	PCT			X

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

KJ	National Semiconductor Corporation, "High Q Notch Filter", 3/69, Linear Brief 5, March 1969.
KK	Burr-Brown Corporation, "Design A 60 Hz Notch Filter with the UAF42", 1/94, AB-071, 1994.
KL	National Semiconductor Corporation, "LMF90-4 th -Order Elliptic Notch Filter", 12/94, RRD-B30M115, December 1994.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>[Handwritten mark]</i>	KM	6,323,650	11/27/01	Bertness et al.	324 426	
<i>[Handwritten mark]</i>	KN	6,329,793	12/11/01	Bertness et al.	320 132	
<i>[Handwritten mark]</i>	KO	6,331,762	12/18/01	Bertness	320 134	
<i>[Handwritten mark]</i>	KP	6,332,113	12/18/01	Bertness	702 63	
<i>[Handwritten mark]</i>	KQ	4,297,639	10/27/81	Branham	324 429	
<i>[Handwritten mark]</i>	KR	5,653,659	8/5/97	Kunibe et al.	477 111	
<i>[Handwritten mark]</i>	KS	6,161,640	12/19/00	Yamaguchi	180 65.8	
<i>[Handwritten mark]</i>	KT	4,351,405	6/28/82	Fields et al.	180 65	
<i>[Handwritten mark]</i>	KU	6,359,441	3/16/02	Bertness	324 426	
<i>[Handwritten mark]</i>	KV	4,047,091	9/1997	Hutchines et al.	363 89	
<i>[Handwritten mark]</i>	KW	5,653,659	8/1997	Kunibe et al.	477 111	
<i>[Handwritten mark]</i>	KX	5,637,978	6/1997	Kellett et al.	320 2	
<i>[Handwritten mark]</i>	KY	5,095,223	3/1992	Thomas	307 110	
<i>[Handwritten mark]</i>	KZ	5,194,799	3/1993	Tomantschger	320 2	
<i>[Handwritten mark]</i>	LA	5,754,417	5/1998	Nicollini	363 60	
	LB					

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
	LC					
	LD					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>[Handwritten mark]</i>	LE	"Alligator Clips with Wire Penetrators" J.S. Popper, Inc. product information, downloaded from http://www.jspopper.com/ , undated
<i>[Handwritten mark]</i>	LF	"#12: LM78S40 Simple Switcher DC to DC Converter", ITM e-Catalog, downloaded from http://www.pcbcafe.com/ , undated
<i>[Handwritten mark]</i>	LG	"Simple DC-DC Converts Allows Use of Single Battery", Electronix Express, downloaded from http://www.elexp.com/t_dc-dc.htm , undated

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James K. Klang et al.

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
LH	5,818,234	10/1998	McKinnon	324	433	
LI	6,140,797	10/2000	Dunn	320	105	
LJ	6,181,545	1/2001	Amatucci et al.	361	502	
LK	6,346,795	2/2002	Haraguchi et al.	320	136	
LM	6,347,958	2/2002	Tsai	439	488	
LN	6,351,102	2/26/02	Troy	320	139	
LO	6,359,441	3/19/02	Bertness	324	426	
LP	6,363,303	3/26/02	Bertness	701	29	
LQ	5,037,778	8/6/91	Stark et al.	437	216	
LR	6,144,185	11/7/00	Dougherty et al.	320	32	
LS	5,711,648	1/27/98	Hammerslag	414	786	
LT	5,927,938	7/27/99	Hammerslag	414	809	
LU	5,951,229	9/14/99	Hammerslag	414	398	
LV	5,961,561	10/5/99	Wakefield, II	701	29	
LW	5,961,604	10/5/99	Anderson et al.	701	229	
LX	6,236,332	5/22/01	Conkright et al.	340	825.06	
LY	6,351,102	2/26/02	Troy	320	139	
LZ	5,821,757	10/13/98	Alvarez et al.	324	434	
MA	6,167,349	12/26/00	Alvarez	702	63	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
MB						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MC	"DC-DC Converter Basics", Power Designers, downloaded from http://www.powderdesigners.com/InforWeb.design_center/articles/DC-DC/converter.shtm , undated
MD	

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U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
ME	4,665,370	5/1987	Holland	324	429	
MF	4,361,809	11/1982	Bil et al.	324	426	
MG	6,392,414	5/21/02	Bertness	324	429	
MH	6,417,669	7/9/02	Champlin	324	426	
MI	6,424,158	7/23/02	Klang	324	433	
MJ	6,441,585	8/17/02	Bertness	320	132	
MK	6,445,158	9/3/02	Bertness et al.	320	104	
ML	6,384,608	5/7/02	Namaky	324	425	
MM	6,388,448	5/14/02	Cervas	324	426	
MN	6,307,349	10/23/01	Koenck et al.	320	112	
MO	6,411,098	6/25/02	Laletin	324	436	
MP	6,456,045	9/24/02	Troy et al.	320	139	
MQ	6,466,025	10/15/02	Klang	324	429	
MR	6,466,026	10/15/02	Champlin	324	430	
MS	4,564,798	1/14/86	Young	320	6	
MT	5,563,496	10/8/96	McClure	320	48	
MU	5,796,239	8/18/98	van Phuoc et al.	320	107	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
MV	RU 2089015-C1	8/27/97	Russia			Abstract Only
MW	09061505	3/7/97	Japan			Abstract Only
MX	10056744	2/24/98	Japan			Abstract Only


OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MY	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US02/29461.
MZ	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/07546.

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		Filing Date September 3, 2003	

U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>NA</i>	4,888,716	12/19/89	Ueno	364	550	
<i>NB</i>	6,495,990 B2	12/17/02	Champlin	320	132	
<i>NC</i>	4,385,269	5/24/83	Aspinwall et al.	320	14	
<i>ND</i>	4,686,442	8/11/87	Radomski	320	17	
<i>NE</i>	6,061,638	5/9/00	Joyce	702	63	
<i>NF</i>	6,359,442	3/19/02	Henningson et al.	324	426	
<i>NG</i>	5,541,489	7/30/96	Dunstan	320	2	
<i>NH</i>	6,424,157	7/23/02	Gollomp et al.	324	430	
<i>NI</i>	6,534,993	3/18/03	Bertness	324	433	
<i>NJ</i>	6,544,078	4/8/03	Palmisano et al.	439	762	
<i>NK</i>	6,556,019	4/29/03	Bertness	324	426	
<i>NL</i>	6,566,883	5/20/03	Vonderhaar et al.	324	426	
<i>NM</i>	6,586,941	7/1/03	Bertness et al.	324	426	
<i>NN</i>	6,597,150	7/22/03	Bertness et al.	320	104	
<i>NO</i>	2002/0171428	11/21/02	Bertness	324	426	
<i>NP</i>	6,263,268	7/17/01	Nathanson	701	29	

FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
<i>NQ</i>	WO 00/67359	11/9/00	WIPO			X
<i>NR</i>	WO 01/51947	7/19/01	WIPO			X
<i>NS</i>	WO 98/04910	2/5/98	WIPO			X
<i>NT</i>	WO 00/62049	10/19/00	WIPO			X
<i>NU</i>						
<i>NV</i>						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

NW	"Notification of Transmittal of The International Search Report or the Declaration", PCT/US03/06577.
EXAMINER: <i>R. M.</i>	DATE CONSIDERED: <i>9/05</i>

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